



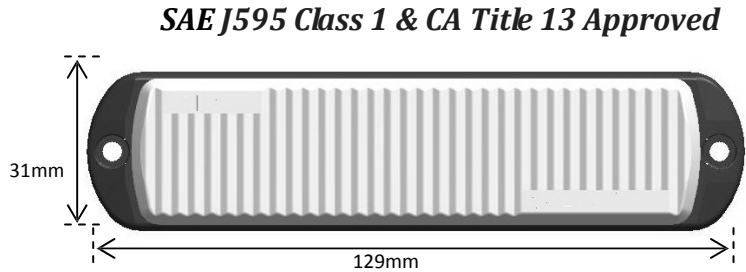
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WARNING
 This product contains high-powered LEDs. Avoid staring into light at close range or for excessive periods of time.

E106D Dual Color - 12 LED's Warning Light - Instruction Manual

Technical Specifications	
Dimensions	129mm x 31mm x 10mm
Input Voltage	10-30 VDC
Operating Temperature	- 30° to + 55°C
Current Consumption	1A (MAX) @ 12.5V
LED Power	6 x 3W per LED



Initial Setup to Power Supply:

1. Ensure the Power Supply is 12/ 24VDC
2. Connect BLACK wire to GROUND
3. Connect RED or Pink wire to user-supplied switch. Connect the other side of the switch, through an 8A fuse, to the 12/ 24VDC +/- power supply.

Installation notes

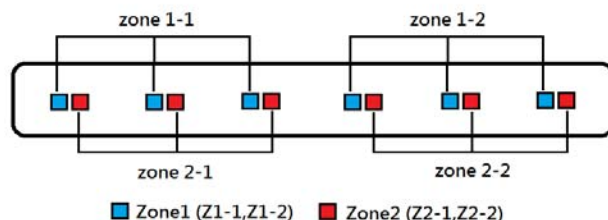
Ensure that the mounting surface is completely flat. The lamp is not flexible, and will be damaged if any attempt is made to mount on a curved surface.

Wiring Configuration		
Color	Function	Description
Red	Primary Color Control	Connect to Positive [+] for single color flash pattern. See 'Pattern List - Single Color Mode'
Pink	Secondary Color Control	Connect to Positive [+] for single color flash pattern. See 'Pattern List - Single Color Mode'
Black	Negative	Permanent Negative [-] for Earth/ Ground
Blue	Pattern Change	Briefly tap the blue wire to Positive [+] for: 1. < 1 second to advance to next flash pattern 2. 1~3 seconds to return to previous flash pattern 3. more than 3 seconds to reset to pattern number 1
Yellow	Synchronization	Synchronizing multiple lamps for simultaneous or alternating flash 1. Set all lamps to the same flash pattern and appropriate phase • Lamps set to the same phase will flash simultaneously • Lamps set to phase '1' will alternate with lamps set to phase '2' 2. Disconnect the power 3. Connect together the yellow wires from all lamps 4. Reconnect the power 5. Check for correct operation

Connect Pink and Red together to Positive [+] for dual colors flash pattern. See 'Pattern List - Dual Color Mode'
 Single color mode and Dual color mode built in individual flashing memory function
 *In Single Color Mode, Red & Pink built in Individual flashing memory function *

Definition of Zone

Primary color	Secondary color
zone 1	zone 2



Pattern List - Single Color Mode

No.	Flash Pattern	Phase	Freq (/min)	Notes	No.	Flash Pattern	Phase	Freq (/min)	Notes
P1	Quad flash	1	75	Simultaneous	P41	Quad flash	1	180	Alternate
P2	Quad flash	2	75	Simultaneous	P42	Quad flash	2	180	Alternate
P3	Triple flash	1	75	Simultaneous	P43	Triple flash	1	180	Alternate
P4	Triple flash	2	75	Simultaneous	P44	Triple flash	2	180	Alternate
P5	Double flash	1	75	Simultaneous	P45	Double flash	1	180	Alternate
P6	Double flash	2	75	Simultaneous	P46	Double flash	2	180	Alternate
P7	Single Flash	1	75	Simultaneous	P47	Single Flash	1	180	Alternate
P8	Single Flash	2	75	Simultaneous	P48	Single Flash	2	180	Alternate
P9	Quad flash	1	75	Alternate	P49	Steady On / Quad Flash	1	75	-----
P10	Quad flash	2	75	Alternate	P50	Steady On / Quad Flash	2	75	-----
P11	Triple flash	1	75	Alternate	P51	Steady On / Single Flash	1	75	-----
P12	Triple flash	2	75	Alternate	P52	Steady On / Single Flash	2	75	-----
P13	Double flash	1	75	Alternate	P53	Quad Flash / Steady On	1	75	-----
P14	Double flash	2	75	Alternate	P54	Quad Flash / Steady On	2	75	-----
P15	Single Flash	1	75	Alternate	P55	Single Flash / Steady On	1	75	-----
P16	Single Flash	2	75	Alternate	P56	Single Flash / Steady On	2	75	-----
P17	Quad flash	1	125	Simultaneous	P57	Quad Flash + Cruise 5%	1	75	Simultaneous
P18	Quad flash	2	125	Simultaneous	P58	Quad Flash + Cruise 5%	2	75	Simultaneous
P19	Triple flash	1	125	Simultaneous	P59	Single Flash x 4 → Quad Flash x 2	1	180 → 75	Simultaneous
P20	Triple flash	2	125	Simultaneous					
P21	Double flash	1	125	Simultaneous	P60	Single Flash x 4 → Quad Flash x 2	2	180 → 75	Simultaneous
P22	Double flash	2	125	Simultaneous					
P23	Single Flash	1	125	Simultaneous	P61	Quad Flash x 2 → Double Flash x 2 → Quad Flash x 2	1	75 → 125 → 125	Simultaneous Simultaneous → Alternate
P24	Single Flash	2	125	Simultaneous					
P25	Quad flash	1	180	Simultaneous					
P26	Quad flash	2	180	Simultaneous	P62	Quad Flash x 2 → Double Flash x 2 → Quad Flash x 2	2	75 → 125 → 125	Simultaneous Simultaneous → Alternate
P27	Triple flash	1	180	Simultaneous					
P28	Triple flash	2	180	Simultaneous					
P29	Double flash	1	180	Simultaneous	P63	Random			Sync
P30	Double flash	2	180	Simultaneous	P64	Steady On			
P31	Single Flash	1	180	Simultaneous					
P32	Single Flash	2	180	Simultaneous					
P33	Quad flash	1	125	Alternate					
P34	Quad flash	2	125	Alternate					
P35	Triple flash	1	125	Alternate					
P36	Triple flash	2	125	Alternate					
P37	Double flash	1	125	Alternate					
P38	Double flash	2	125	Alternate					
P39	Single Flash	1	125	Alternate					
P40	Single Flash	2	125	Alternate					

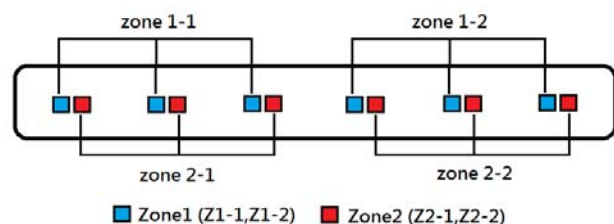
Pattern List - Dual Color Mode

No.	Flash Pattern	Phase	Freq (/min)	Notes	No.	Flash Pattern	Phase	Freq (/mi)	
P1	Zone1 ⇔ Zone2 Quad Flash	1	75	Alternate	P33	[Z1-1] ⇔ [Z2-2] Quad Flash	1	125	Alternate
P2	Zone1 ⇔ Zone2 Quad Flash	2	75	Alternate	P34	[Z1-1] ⇔ [Z2-2] Quad Flash	2	125	Alternate
P3	Zone1 ⇔ Zone2 Triple Flash	1	75	Alternate	P35	[Z1-1] ⇔ [Z2-2] Triple Flash	1	125	Alternate
P4	Zone1 ⇔ Zone2 Triple Flash	2	75	Alternate	P36	[Z1-1] ⇔ [Z2-2] Triple Flash	2	125	Alternate
P5	Zone1 ⇔ Zone2 Double Flash	1	75	Alternate	P37	[Z1-1] ⇔ [Z2-2] Double Flash	1	125	Alternate
P6	Zone1 ⇔ Zone2 Double Flash	2	75	Alternate	P38	[Z1-1] ⇔ [Z2-2] Double Flash	2	125	Alternate
P7	Zone1 ⇔ Zone2 Single Flash	1	75	Alternate	P39	[Z1-1] ⇔ [Z2-2] Single Flash	1	125	Alternate
P8	Zone1 ⇔ Zone2 Single Flash	2	75	Alternate	P40	[Z1-1] ⇔ [Z2-2] Single Flash	2	125	Alternate
P9	[Z1-1] ⇔ [Z2-2] Quad Flash	1	75	Alternate	P41	[Z2-1] ⇔ [Z1-2] Quad Flash	1	125	Alternate
P10	[Z1-1] ⇔ [Z2-2] Quad Flash	2	75	Alternate	P42	[Z2-1] ⇔ [Z1-2] Quad Flash	2	125	Alternate
P11	[Z1-1] ⇔ [Z2-2] Triple Flash	1	75	Alternate	P43	[Z2-1] ⇔ [Z1-2] Triple Flash	1	125	Alternate
P12	[Z1-1] ⇔ [Z2-2] Triple Flash	2	75	Alternate	P44	[Z2-1] ⇔ [Z1-2] Triple Flash	2	125	Alternate
P13	[Z1-1] ⇔ [Z2-2] Double Flash	1	75	Alternate	P45	[Z2-1] ⇔ [Z1-2] Double Flash	1	125	Alternate
P14	[Z1-1] ⇔ [Z2-2] Double Flash	2	75	Alternate	P46	[Z2-1] ⇔ [Z1-2] Double Flash	2	125	Alternate
P15	[Z1-1] ⇔ [Z2-2] Single Flash	1	75	Alternate	P47	[Z2-1] ⇔ [Z1-2] Single Flash	1	125	Alternate
P16	[Z1-1] ⇔ [Z2-2] Single Flash	2	75	Alternate	P48	[Z2-1] ⇔ [Z1-2] Single Flash	2	125	Alternate
P17	[Z2-1] ⇔ [Z1-2] Quad Flash	1	75	Alternate	P49	Zone1 ⇔ Zone2 Quad Flash	1	180	Alternate
P18	[Z2-1] ⇔ [Z1-2] Quad Flash	2	75	Alternate	P50	Zone1 ⇔ Zone2 Quad Flash	2	180	Alternate
P19	[Z2-1] ⇔ [Z1-2] Triple Flash	1	75	Alternate	P51	Zone1 ⇔ Zone2 Triple Flash	1	180	Alternate
P20	[Z2-1] ⇔ [Z1-2] Triple Flash	2	75	Alternate	P52	Zone1 ⇔ Zone2 Triple Flash	2	180	Alternate
P21	[Z2-1] ⇔ [Z1-2] Double Flash	1	75	Alternate	P53	Zone1 ⇔ Zone2 Double Flash	1	180	Alternate
P22	[Z2-1] ⇔ [Z1-2] Double Flash	2	75	Alternate	P54	Zone1 ⇔ Zone2 Double Flash	2	180	Alternate
P23	[Z2-1] ⇔ [Z1-2] Single Flash	1	75	Alternate	P55	Zone1 ⇔ Zone2 Single Flash	1	180	Alternate
P24	[Z2-1] ⇔ [Z1-2] Single Flash	2	75	Alternate	P56	Zone1 ⇔ Zone2 Single Flash	2	180	Alternate
P25	Zone1 ⇔ Zone2 Quad Flash	1	125	Alternate	P57	[Z1-1] ⇔ [Z2-2] Quad Flash	1	180	Alternate
P26	Zone1 ⇔ Zone2 Quad Flash	2	125	Alternate	P58	[Z1-1] ⇔ [Z2-2] Quad Flash	2	180	Alternate
P27	Zone1 ⇔ Zone2 Triple Flash	1	125	Alternate	P59	[Z1-1] ⇔ [Z2-2] Triple Flash	1	180	Alternate
P28	Zone1 ⇔ Zone2 Triple Flash	2	125	Alternate	P60	[Z1-1] ⇔ [Z2-2] Triple Flash	2	180	Alternate
P29	Zone1 ⇔ Zone2 Double Flash	1	125	Alternate	P61	[Z1-1] ⇔ [Z2-2] Double Flash	1	180	Alternate
P30	Zone1 ⇔ Zone2 Double Flash	2	125	Alternate	P62	[Z1-1] ⇔ [Z2-2] Double Flash	2	180	Alternate
P31	Zone1 ⇔ Zone2 Single Flash	1	125	Alternate	P63	[Z1-1] ⇔ [Z2-2] Single Flash	1	180	Alternate
P32	Zone1 ⇔ Zone2 Single Flash	2	125	Alternate	P64	[Z1-1] ⇔ [Z2-2] Single Flash	2	180	Alternate

No	Flash Pattern	Phase	Freq (/min)	Notes	No	Flash Pattern	Freq (/min)	Notes
P65	[Z2-1] ⇔ [Z1-2] Quad flash	1	180	Alternate	P89	Zone1 ⇔ Zone2 Single Flash x 4 → Zone1 ⇔ Zone2 Quad Flash x 2	180 → 75	Sync
P66	[Z2-1] ⇔ [Z1-2] Quad flash	2	180	Alternate	P90	[Z1-1] ⇔ [Z2-2] Single Flash x 4 → [Z1-1] ⇔ [Z2-2] Quad Flash x 2	180 → 75	Sync
P67	[Z2-1] ⇔ [Z1-2] Triple flash	1	180	Alternate	P91	[Z2-1] ⇔ [Z1-2] Single Flash x 4 → [Z2-1] ⇔ [Z1-2] Quad Flash x 2	180 → 75	Sync
P68	[Z2-1] ⇔ [Z1-2] Triple flash	2	180	Alternate	P92	Zone1 ⇔ Zone2 Quad Flash x 2 → [Z2-1] ⇔ [Z1-2] Single Flash x 4	75 → 180	Sync
P69	[Z2-1] ⇔ [Z1-2] Double flash	1	180	Alternate	P93	Zone1 ⇔ Zone2 Quad Flash x 2 → [Z1-1] ⇔ [Z2-2] Single Flash x 4	75 → 180	Sync
P70	[Z2-1] ⇔ [Z1-2] Double flash	2	180	Alternate	P94	Zone1 ⇔ Zone2 Double Flash x 2 → [Z1-1] ⇔ [Z2-2] Single Flash x 4 → Zone1 ⇔ Zone2 Single Flash x 4	125 → 125 → 125	Sync
P71	[Z2-1] ⇔ [Z1-2] Single Flash	1	180	Alternate				
P72	[Z2-1] ⇔ [Z1-2] Single Flash	2	180	Alternate	P95	Zone1 ⇔ Zone2 Double Flash x 2 → [Z1-1] ⇔ [Z2-2] Single Flash x 4 → Zone1 ⇔ Zone2 Quad Flash x 1 → [Z2-1] ⇔ [Z1-2] Double Flash x 2	75 → 180 → 75 → 75	Sync
P73	[Z1-1] Steady On / [Z2-2] Quad Flash	1	75	Two colors Simultaneo				
P74	[Z1-1] Steady On / [Z2-2] Quad Flash	2	75	Two colors Simultaneo	P96	[Z1-1] ⇔ [Z1-2] Double Flash x 2 → Zone1 only Single Flash x 2 → [Z2-1] ⇔ [Z2-2] Double Flash x 2 → Zone2 only Single Flash x 2	75 → 75 → 75 → 75	Sync
P75	[Z1-1] Steady On / [Z2-2] Single Flash	1	75	Two colors Simultaneo				
P76	[Z1-1] Steady On / [Z2-2] Single Flash	2	75	Two colors Simultaneo	P97	Zone1 only Quad Flash x 2 & cruise 5% → Zone2 only Quad Flash x 2 & cruise 5%	75	Sync
P77	[Z1-1] Quad Flash / [Z2-2] Steady On	1	75	Two colors Simultaneo	P98	[Z1-1] ⇔ [Z1-2] Quad Flash x 2 & Zone1 Cruise 5% → [Z2-1] ⇔ [Z2-2] Quad Flash x 2 & Zone2 Cruise 5%	75	Sync
P78	[Z1-1] Quad Flash / [Z2-2] Steady On	2	75	Two colors Simultaneo				
P79	[Z1-1] Single Flash / [Z2-2] Steady On	1	75	Two colors Simultaneo	P99	Zone1 only Quad Flash x 2 → Zone1 only Double Flash x 2 → Zone1 ⇔ Zone2 Quad Flash x 2 → Zone1 only Double Flash x 2	75 → 125 → 125 → 125	Sync
P80	[Z1-1] Single Flash / [Z2-2] Steady On	2	75	Two colors Simultaneo				
P81	[Z2-1] Steady On / [Z1-2] Quad Flash	1	75	Two colors Simultaneo	P100	Zone1 only Quad Flash x 2 → Zone1 only Double Flash x 2 → [Z2-1] ⇔ [Z2-2] Quad Flash x 2	75 → 125 → 125	Sync
P82	[Z2-1] Steady On / [Z1-2] Quad Flash	2	75	Two colors Simultaneo				
P83	[Z2-1] Steady On / [Z1-2] Single Flash	1	75	Two colors Simultaneo	P101	Zone2 only Quad Flash x 2 → Zone2 only Double Flash x 2 → [Z1-1] ⇔ [Z1-2] Quad Flash x 2	75 → 125 → 125	Sync
P84	[Z2-1] Steady On / [Z1-2] Single Flash	2	75	Two colors Simultaneo				
P85	[Z2-1] Quad Flash / [Z1-2] Steady On	1	75	Two colors Simultaneo	P102	Random (tow colors at the same time)		Sync
P86	[Z2-1] Quad Flash / [Z1-2] Steady On	2	75	Two colors Simultaneo				
P87	[Z2-1] Single Flash / [Z1-2] Steady On	1	75	Two colors Simultaneo				
P88	[Z2-1] Single Flash / [Z1-2] Steady On	2	75	Two colors Simultaneo				

Definition of Zone

Primary color	Secondary color
zone 1	zone 2



- To review the Limited Warranty Statement & Return Policy for this Eight EVP product please visit our website at www.8evp.com and select the "Warranty & Returns" link on the contact page. If you have questions regarding this product please contact Technical Services, Monday - Friday, 7.30 am to 4 pm central at 615.868.1588. Questions or comments that do not require immediate attention may be emailed to sales@8evp.com
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